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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/486,129	02/23/2000	TOSHIYUKI MIYABAYASHI	U012618-1	3476
7590 02/10/2005			EXAMINER	
LADAS & PARRY 26 WEST 61ST STREET			SHOSHO, CALLIE E	
NEW YORK, N			ART UNIT	PAPER NUMBER
			1714	

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	09/486,129	MIYABAYASHI ET AL.	
omoo notion ourimary	Examiner	Art Unit	
The MAILING DATE of this communication on	Callie E. Shosho	1714	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	ne correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply only within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS e. cause the application to become ABAND	be timely filed)) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. & 133)	
Status			
1) Responsive to communication(s) filed on 15 N	November 2004.		
2a)⊠ This action is FINAL . 2b)□ This	s action is non-final.		
3) Since this application is in condition for allowa	ince except for formal matters,	, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1,3,4,6-9,17-21,23-29,31,32,34,35 ar</u>	nd 37-45 is/are nending in the	application	
4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1,3,4,6-9,17-21,23-29,31,32,34,35 al</u> 7) ☐ Claim(s) <u>44-45</u> is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration. nd 37-43 is/are rejected.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by t	he Examiner.	
Applicant may not request that any objection to the		` ,	
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Of	fice Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea	ts have been received. ts have been received in Applic rity documents have been rec u (PCT Rule 17.2(a)).	cation No eived in this National Stage	
Attachment(s)			
) Notice of References Cited (PTO-892)	4) Interview Summ	nary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma	il Date	
) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	nal Patent Application (PTO-152)	

DETAILED ACTION

1. All outstanding rejections except for those described below are overcome by applicants' amendment filed 11/15/04.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1, 3-4, 6-7, 17-18, 20-21, 23-25, 37-40, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. (U.S. 5,990,202) in view of Page et al. (U.S. 6,040,358).

The disclosure is adequately set forth in paragraph 6 of the office action mailed 8/10/04 and is incorporated here by reference.

4. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. in view of Page et al. as applied to claims 1, 3-4, 6-7, 17-18, 20-21, 23-25, 37-40, and 42 above, and further in view of Takemoto et al. (U.S. 6,084,619).

The disclosure is adequately set forth in paragraph 7 of the office action mailed 8/10/04 and is incorporated here by reference.

5. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. in view of Page et al. as applied to claims 1, 3-4, 6-7, 17-18, 20-21, 23-25, 37-40, and 42 above, and further in view of Chassot et al. (U.S. 5,348,580).

The disclosure is adequately set forth in paragraph 8 of the office action mailed 8/10/04 and is incorporated here by reference.

6. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. in view of Page et al. as applied to claims 1, 3-4, 6-7, 17-18, 20-21, 23-25, 37-40, and 42 above, and further in view of Durand et al. (U.S. 5,093,038).

The disclosure is adequately set forth in paragraph 9 of the office action mailed 8/10/04 and is incorporated here by reference.

7. Claims 26, 28-29, 31-32, 34-35, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. (U.S. 5,990,202) in view of Page et al. (U.S. 6,040,358).

The disclosure is adequately set forth in paragraph 10 of the office action mailed 8/10/04 and is incorporated here by reference.

8. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen et al. in view of Page et al. as applied to claims 26, 28-29, 31-32, 34-35, and 43 above, and further in view of Durand et al. (U.S. 5,093,038).

The disclosure is adequately set forth in paragraph 11 of the office action mailed 8/10/04 and is incorporated here by reference.

Response to Arguments

9. Applicants' arguments filed 11/15/04 have been fully considered but they are not persuasive.

All the present claims of record require that the polymer encapsulated colorant is produced by polymerizing monomers for constituting the polymer in the presence of the dye or pigment.

There is no disclosure in Nguyen et al. that the polymer encapsulated colorant is formed as required in the present claims. Rather, Nguyen et al. produce polymer encapsulated colorant by mixing or milling the polymer and the colorant together. However, although the process of Nguyen et al. is different than that presently claimed, it is the examiner's position that given that Nguyen et al. disclose the same product as presently claimed, and absent a showing of the criticality of the presently claimed process, Nguyen et al. remains a relevant reference against the present claims.

Applicants filed a first 1.132 declaration on 2/20/04 and a second 1.132 declaration on 11/15/04 in order to show that the product, i.e. ink, of Nguyen et al. is not the same as the presently claimed product and to establish criticality of the presently claimed process used to make the polymer encapsulated colorant.

The declaration compares ink inside the scope of the present claims, i.e. comprising polymer encapsulated colorant produced by polymerizing monomers constituting the polymer in the presence of the colorant (Ink 1) with ink outside the scope of the present claims but within the scope of Nguyen et al., i.e. comprising polymer encapsulated colorant produced by milling

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polymer and colorant (Ink 6). It is shown that the ink of the present invention is superior in terms of light stability.

However, it is the examiner's position that the declaration is not successful in establishing unexpected or surprising results over the cited prior art given that there is not proper side-by-side comparison between inventive Ink 1 and comparative Ink 6. Specifically, as set forth in the 1.132 declaration filed 2/20/04, Ink 1 uses polymer encapsulated colorant wherein the polymer is obtained from 20 g butyl acrylate, 30 g benzyl methacrylate, 12 g methacrylic acid, 18 g monomer having UV absorbing activity, and 2 g monomer having photostabilizing activity while Ink 6, as set forth in the 1.132 declaration filed 11/15/04, uses polymer encapsulated colorant wherein the polymer is obtained from 20 g butyl acrylate, 12 g benzyl methacrylate, 5 g methacrylic acid, 18 g monomer having UV absorbing activity, and 2 g monomer having photostabilizing activity. Thus, the polymers are made from different amounts of monomers.

The above is especially significant in light of the disclosure on page 12 of the amendment filed 11/15/04. The table on page 12 shows that the polymer of Ink 6 and Ink 1 are the same. However, the amounts of monomer set forth in the table of the amendment do not match the amounts of monomer set forth in either of the 1.132 declarations. Specifically, the 1.132 declaration of 2/20/04 shows polymer of colorant 1 for Ink 1 comprises 30 g benzyl methacrylate while the table in the amendment shows that the polymer utilizes 12 g benzyl methacrylate and the 1.132 declaration of 11/15/04 shows that the polymer of polymer emulsion B utilized in Ink 6 comprises 5 g methacrylic acid while the table in the amendment shows that the polymer utilizes 12 g methacrylic acid. Thus, it is not clear which values are correct; those set forth in the table on

page 12 of the amendment filed 11/15/04 or those in the 1.132 declarations. Clarification is requested.

In light of the above, it is the examiner's position that the 35 USC 103 rejections of record remain relevant against the present claims.

Allowable Subject Matter

10. Claims 44-45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 44 would be allowable if rewritten in independent form for the reasons set forth in paragraph 12 of the office action mailed 8/10/04.

Claim 45 would be allowable if rewritten in independent form given that the claim requires that the polymer encapsulated colorant "consists of" dye or pigment and the polymer having in its molecular chain sites possessing ultraviolet and photostabilizing activity. It is noted that the use of "consisting of" transitional languages limits the scope of the claim to the recited elements. However, Nguyen et al. (U.S. 5,990,202) disclose polymer encapsulated colorant that is encapsulated by two polymers, i.e. durable core-shell polymer and primer core-shell polymer wherein the primer core-shell polymer does not have in its molecular chain sites possessing ultraviolet and photostabilizing activity. Thus, the polymer encapsulated colorant disclosed by Nguyen et al. falls outside the scope of present claim 45.

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11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Callie E. Shosho whose telephone number is 571-272-1123. The examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Callie E. Shosho Primary Examiner Art Unit 1714

CS 2/4/05